## 8A Finding Cartesian Equations

1. a) Draw the graph of the function:

$$
\begin{gathered}
x=2 t \quad y=t^{2} \\
-3 \leq t \leq 3
\end{gathered}
$$

b) Find the Cartesian equation of the curve
2. A curve has parametric equations:

$$
x=\ln (t+3) \quad y=\frac{1}{t+5}
$$

a) Find a Cartesian equation of the curve in the form $y=f(x), x>k$, where $k$ is a constant to be found.
b) Write down the range of $f(x)$

